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also to make it a game refuge for the preservation of the fauna of the eastern mountains. It is particularly well suited to this purpose since it is already well stocked with game and fish, including deer, turkey and pheasant; and in the streams rainbow trout and brook trout, with which they have been systematically stocked from year to year. With this purchase, and with others just approved, the total area approved for purchase under the Weeks law in the eastern mountains is 1,077,000 acres.

FACTS regarding our forest resources, their value and their waste, are condensed in an eight-page illustrated circular of the American forestry association just issued. The lumber industry is said to employ 735,000 people, to whom are paid annually \$367,000,000 in wages, the worth of products being \$1,250,000,000. The forests of the country cover 550,000,000 acres. An average of 70 human lives are sacrificed annually in forest fires, says the circular, and a loss occurs of \$25,000,000. Damage from insects and tree diseases, which follow fire, costs each year \$50,000,000. The cost of destruction resulting from floods is not estimated, but is given as "countless millions." But the circular expresses hope more than pessimism. As well as the colored pictures showing the forest fire, the effects of the fire, and the damage caused by floods, it shows also forests planted and grown under intensive management, and the national forest ranger scouting for fires on the mountain lookout station. The effective patrol here referred to has reduced "forest fire losses to as low as one tenth of one cent an acre." It is pointed out that by planting forests an annual income could be derived in the country of \$65,000,000; and by preservative treatment upon timber each year \$100,000,000 could be saved.

THERE has recently been established in Nela Research Laboratory (formerly known as Physical Laboratory, National Electric Lamp Association) a section of applied science in addition to the section of pure science which was established over five years ago. The section of applied science will be separate and

distinct from the section of pure science and will not restrict or in any way affect the established work in pure science. A research fellowship in ophthalmology in Nela Research Laboratory has been established for the year 1914-15. The fellowship carries with it an honorarium of \$700 and is open to men sufficiently advanced in specialized medical training to carry on an independent investigation of some problem having to do with the effects of light and attendant radiation on the eye.

WE learn from *Nature* that the movement inaugurated a few months ago to develop as completely as possible the educational side of the cinematograph made definite headway on Wednesday, May 20, when the Educational Kinematograph Association was formed at a meeting in London. Among those who have joined the council of this body are Sir H. A. Miers, Rt. Hon. Sir Horace Plunkett, Dr. C. W. Kimmins, Professor R. A. Gregory, Professor J. W. Gregory, Mr. C. Bathurst, M.P., Dr. Lyttelton, Mr. A. P. Graves, Professor Darroch, Sir Edward Anwyl, Sir Harry R. Reichel, Sir Bertram Windle, Sir Albert Rollit and General Sir R. Baden Powell. At the meeting a report was presented by the secretary, Mr. Morley Dainow, on behalf of the provisional committee, suggesting that the work of the association should be to encourage the best types of cinematograph production and develop a completely educational plan for their use. The report was adopted, subject to revision by a subcommittee. The following officers were elected vice-presidents: Sir Wm. Chance, Dr. Kimmins, Colonel Sir J. R. D. Smith, Sir Albert Rollit. An executive committee representative of educational and social welfare associations was also appointed, and Mr. Morley was elected secretary.

UNIVERSITY AND EDUCATIONAL NEWS

MR. ANDREW CARNEGIE has added, presumably from the income of the Carnegie corporation, \$2,000,000 to the endowment of the Carnegie Institute of Pittsburgh, to be equally divided between the institute and the school

of technology. Mr. Carnegie's gifts to these institutions now amount to \$24,000,000.

By the will of former Judge John Forrest Dillon, Iowa State University receives \$10,000 and Iowa College and Cornell College, \$1,000 each.

AN additional gift of \$25,000 has been received by Oberlin College for carrying out the general building plans and the improvement of grounds.

THE alumni of the University of Illinois are planning to erect a \$150,000 building as a memorial to John Milton Gregory, first president of the university. It is to house an art collection gathered by Dr. Gregory and a new collection of figures and panels which the alumni association intends to buy.

THE Arnold Biological Laboratory, ground for which has been broken at Brown University, is expected to be finished a year from this summer. The building itself will cost \$80,000, while \$30,000 more will be spent upon the equipment.

THE Drapers' Company has made a grant of £200 a year for three years for anthropology at the University of Cambridge.

LAST year Sir William James Thomas, of Ynyshir, undertook to build and present to the University College of South Wales and Monmouthshire on a site contiguous to the old buildings in Newport Road a complete physiological department, so constructed as to form a part of a scheme for a complete medical school on the same site. Now, as we learn from *Nature*, a donor, who wishes at present to remain anonymous, has offered to build the whole of the buildings necessary not only for a medical school, but also a school of preventive medicine, at an estimated cost of £60,000. One of the conditions attached to the latter gift, however, is that the funds supplied by the treasury should be sufficient for the upkeep of the complete school.

CENTRAL Turkey College at Aintab has received from the Turkish government official recognition as *école supérieure*. It is the first of the American colleges in Turkey to secure

such authorization for any part of its regular curriculum.

MR. ALBERT L. BARROWS has been appointed instructor in zoology in the University of California.

DR. THOMAS H. MACBRIDE, professor of botany, has been appointed president of the Iowa State University by the State Board of Education.

DISCUSSION AND CORRESPONDENCE

THE ORGANIZATION OF A UNIVERSITY DEPARTMENT

TO THE EDITOR OF SCIENCE: I have read with interest the letter of Professor F. L. Washburn on "Heads of Departments," in SCIENCE of May 1; and it has occurred to me that your readers might be interested in an account of the present organization of one of the largest departments in one of the largest universities in America.

At Columbia University a department of English was first established in 1899 by assigning to it the professor of English literature, the professor of dramatic literature and the professor of rhetoric and English composition; and these three thereupon organized by inviting the professor of English in Teachers College to join them and by electing the professor of English literature as chairman and the professor of rhetoric as secretary. On the death of the professor of English literature, the late Thomas R. Price, the position of chairman was abolished, the senior professor of the department being expected to preside at its meetings and all the administrative duties being confided to the secretary, who was relieved of a part of his teaching that he might be enabled to carry this extra burden.

With the expansion of Columbia University and of its several colleges and schools, Columbia College, Barnard, Teachers and the School of Journalism, the department of English has grown in numbers; and several years ago the department of comparative literature was merged with it, so that it now consists of more than twenty professors, assistant professors and associate professors. And during the past fifteen years it has administered its